ANNOUNCEMENTS 1966-67

NORTH CENTRAL REGION

Barker Memorial Center

Michigan City

PURDUE UNIVERSITY BULLETIN

University Calendar

1966

SEPTEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

OCTOBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

NOVEMBER

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

DECEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1967

JANUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

FEBRUARY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

MARCH

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

JULY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

AUGUST

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

First Semester

September 14
Classes begin

November 23
Thanksgiving vacation begins

November 28
Classes resume

December 21
Christmas vacation begins

January 4
Classes resume

January 21
Classes end

Second Semester

January 30
Classes begin

March 25
Spring vacation begins

April 3
Classes resume

May 31
Classes end

June 4
Commencement

Summer Sessions, 1967

June 19-August 11
Regular 8-week Session

No classes will be held on Independence Day, July 4

PURDUE UNIVERSITY BULLETIN

Volume 66 June 7, 1966 Number 24

Second-class postage paid at Lafayette, Indiana 47907. Issued by Purdue University 26 times a year: three times each in January, February, March, April, May, June, and December; once each in July, August, September, October, and November.

Barker Memorial Center

Announcements for the Year 1966-67

PURDUE UNIVERSITY

LAFAYETTE, INDIANA

Ninety-second Year

PUBLISHED BY THE UNIVERSITY

CONTENTS

PURDUE UNIVERSITY

Division of Regional Campuses

Lafayette, Indiana

OFFICERS OF ADMINISTRATION AND INSTRUCTION

Administrative Officers

FREDERICK L. HOVDE, B.Ch.E., M.A., D.Sc., LL.D., D. Eng., D.H.L., D.C.L., Pd.D. ..... President

LYTLE J. FREEHAFER, A.B. ..... Vice President and Treasurer

PAUL F. CHENEA, Ph.D. ..... Vice President for Academic Affairs

FREDERICK N. ANDREWS, Ph.D., D.Sc. ..... Vice President for Research and Dean of the Graduate School

DONALD R. MALLETT, Ph.D. ..... Vice President and Executive Dean

University Extension Administration

C. H. LAWSHE, Ph.D. ..... Dean of University Extension

G. W. BERGREN, M.S.M.E. ..... Assistant Dean of University Extension

N. M. PARKHURST, M.S. ..... Registrar

B. J. PERSHING ..... Assistant Comptroller

D. A. SCOTT, Ph.D. ..... Associate Dean of University Extension

H. W. WHITE, M.S. ..... Director of Admissions

Barker Memorial Center (Michigan City) Administrative Staff

ROBERT F. SCHWARZ, M.A. ..... Director

JAMES R. BLACKWELL, M.B.A. ..... Assistant Director

General Information

Purdue University is the Indiana link in a nationwide chain of 68 land grant colleges and universities. It is a people's university grown out of the demand of the American people that higher education be the birthright of the many, not the privilege of the few.

Long preeminent in agriculture, engineering, and science, Purdue has more recently become strong in the humanities and technology.

Location

Purdue has established, largely since World War II, a series of regional campuses and University centers for the purpose of offering educational opportunities in the major population areas of Indiana. The Barker Memorial Center serves the communities located in the north central part of the state. By the fall of 1967, the center will move to a new 170-acre site at the junction of the Indiana Toll Road and U. S. 421. It will then become the North Central Campus of Purdue University.

History

The Barker Memorial Center started operations after World War II in facilities loaned to the University by the Michigan City and LaPorte city schools. In 1948, the old Barker mansion was made available to the University, and in 1949, all the area classes were consolidated in this fine old structure.

Organization

Barker Memorial Center operates as an integral part of Purdue University. Faculty members hold their appointments in Purdue departments and teach courses under departmental control. Course numbers and content are the same for all campuses of the University. Faculty members receive promotion through a University-wide promotion mechanism.

Programs

Work at different levels is offered at the Barker Memorial Center Campus. There are several certificate programs of varying length available to interested area residents. Also available are a wide variety of continuing education activities, conducted to meet the needs and the requests of the populace of the region.

In addition to the noncredit programs are several levels of credit programs. The interested student may pursue a program leading to an Associate in Applied Science degree in one of the many engineering technology options. The freshman and, in some cases, sophomore years of nearly every curriculum offered by the University leading to Bachelor of Science or Bachelor of Arts degrees may be completed at the Barker Memorial Center.

To supplement undergraduate offerings, graduate courses in a variety of fields are regularly offered.

Purpose and Function

Purdue University Barker Memorial Center is dedicated to service in the land grant tradition. It provides regional University facilities for community service. It brings the educational opportunity of a great University to a con-

stantly increasing number of regular University students working toward degrees, while it provides similar opportunities to others on a part-time basis. At the same time, educational activities, related to the nature of the population and the industrial development of the area, help serve other educational needs of the community.

Admission

General Requirements for Undergraduates (Graduates should refer to page 40)

All persons wanting to take advantage of the opportunity for higher education at the Barker Memorial Center of Purdue University must file an application for admission. Requests for information and application forms should be addressed to the Office of Admissions, Purdue University, Barker Memorial Center, 631 Washington Street, Michigan City, Indiana 46360. Students pursuing the baccalaureate, associate degree, and credit certificate programs must be high school graduates. A prospective student should complete the application according to instructions and then forward the form to the high school from which he is to be or already has been graduated. The high school should then complete the application and return it to the Office of Admissions at the Barker Memorial Center. High school students should make application during their seventh semester of high school, or as soon as possible thereafter. High school graduates should make application immediately. This enables the University fully to evaluate an applicant's eligibility for consideration and to notify the applicant at an early date of the action taken, thus allowing the applicant to make his educational plans.

An individual's eligibility for consideration will depend upon many factors, among which are: (1) subject matter requirements for the school or program to which he is applying; (2) high school class standing; (3) College Entrance Examination Board test results; (4) high school comments and recommendations; (5) previous college work, if any; and (6) other personal information.

1. Subject Matter Requirements—The Table on page 7 shows the minimal requirements for each school within the University.

Although meeting the minimum subject matter requirements may qualify a student for consideration for admission, it may not qualify him to meet the competition of his classmates. Individuals with one required subject deficiency in their high school background may be eligible for consideration if they rank in the top one-third of their high school graduating class and are otherwise well qualified.

High school students who desire to study engineering, mathematics, chemistry, or physics should establish credit in the following high school subjects in addition to the minimum requirements in order to graduate in eight semesters: a fourth semester of algebra and a full year of both physics and chemistry.

2. High School Class Standing (Indiana residents)—Preference is given to applicants in the upper half of their high school graduating class. Applicants who rank in the lower half but *above* the lowest third (33rd percentile to 50th percentile) may be given consideration for admission if additional factors indicate that they have a reasonable chance for success at Purdue.

Curricula	High School Graduation	1 Unit Algebra	½ Unit Advanced Algebra	1 Unit Plane Geometry	½ Unit Trigonometry	1 Unit Laboratory Science	3 Units English	1 Unit Social Studies	Total of Not Less Than 15 Units
Agriculture and Forestry	x	x		x		x	x	x	x
Engineering	x	x	x	x	x	x	x	x	x
Home Economics	x	x		x		x	x	x	x
Physical Education (Men)	x					x	x	x	x
Science	x	x	x	x	x	x	x	x	x
Humanities, Social Science, and Education	x	x		x		x	x	x	x
Industrial Management	x	x	x	x		x	x	x	x
Industrial Education	x	x		x		x	x	x	x
Technology, two years	x	x		x		x	x	x	x
Technology, B.S.	Two-year associate degree								
Pharmacy	One year of prepharmacy in School of Science								
Veterinary Science and Medicine	Two years of preveterinary curriculum								

3. College Entrance Examination Board (CEEB) tests—All applicants who have not recently completed a full year of college study are required to submit their results on the Scholastic Aptitude Test (SAT) and achievement tests in English, mathematics, and chemistry (students who have not had chemistry may substitute physics or biology). High school students should take the SAT in December and the achievement tests in March or May of their senior year. Complete information concerning CEEB testing is available at most high schools, or persons may write directly to: College Entrance Examination Board, Box 592, Princeton, New Jersey 08540. High school graduates who do not file their application in time to arrange for the required tests should contact the Office of Admissions immediately.

On the basis of the factors considered, action on the individual's application may be one of the following:

(1) Granted unqualified regular admission—this means that the applicant has met all entrance standards and requirements for admission.
(2) Admitted unclassified (on probation)—this applies to the applicant whose academic background and preparation does not meet the entrance standards and/or requirements, but who the University feels has a reasonable chance of gaining regular admission at a later date.
(3) Admission denied or postponed until an adequate academic background and preparation can be demonstrated.

Any admission to the University is provisional pending the receipt of all required student information. The University reserves the right to cancel any admission if a student fails to provide all necessary credentials.

NONRESIDENT ADMISSION

Out-of-state applicants must complete the same general requirements as Indiana residents. In addition, nonresident applicants should rank in the highest quarter of their high school graduating class or in the highest quarter of the College Entrance Examination Board SAT test in order to be eligible for consideration. Students who are not in the highest quarter but that are in the upper half of their class (50th percentile to 75th percentile) may be given consideration. Nonresident transfer students must have a "B" average in all previous college work (see "Transfer Students" below).

TRANSFER STUDENTS

An applicant transferring from another college or university must fulfill the following requirements in order to be considered for admission:

(1) Submit an application for admission on the prescribed form through the high school from which he was graduated, including the College Entrance Examination Board test results.
(2) Forward an official transcript of work done in institutions previously attended to the Office of Admissions at the Barker Memorial Center.
(3) Indiana Residents only—Have a "C" average in all work done in institutions previously attended. Persons who do not have a "C" average but show academic potential may be given consideration.
(4) Nonresidents only—Have a "B" average in all previous college work.

Credit earned at other institutions with the grade of "C" and above will be evaluated in terms of how it fulfills the graduation requirements at Purdue University. Evaluation of credit is completed after a student is admitted to the University.

NONDEGREE STUDENTS

Persons who desire to take advantage of the instruction in any of the departments of the University without undertaking one of the regular plans of study and without becoming a candidate for a degree may be admitted as temporary students. Such students must present evidence that they are prepared to undertake the work desired and must progress satisfactorily in their work.

Admission as a temporary student is for one semester only and any further enrollment must be approved by the Office of Admissions. A maximum of 11

credit hours may be taken in any one semester and a maximum of 24 credit hours may be taken while classified as a temporary student.

A personal interview is required with a member of the Office of Admissions staff prior to admission as a temporary student. Any student who is registered in another college or university and wishes to attend Purdue during the same semester must submit a letter from the other institution approving the specific courses to be taken at the Barker Memorial Center. All students who have been previously enrolled in another institution must have a letter of good scholastic and social standing on file with the Office of Admissions prior to enrollment. Application for admission as a temporary student should be made to the Office of Admissions at the Barker Memorial Center.

REENTRY STUDENTS

Any person in good standing who has formerly attended Purdue but has not been in attendance for a semester or more must submit an application for reentry. Each individual situation will determine the status of the person's eligibility for reentry.

READMISSION OF STUDENTS

Any person who has been formally dropped from the University for academic reasons and wishes to reenter must make application for readmission to the Faculty Committee on Scholastic Delinquencies and Admissions. Forms for initiating this procedure are available in the Administrative Office of the Barker Memorial Center.

ADVANCED CREDIT

The University wishes to give recognition in the form of advanced standing and credit to students who have successfully completed college level work in their high schools. There are two basic ways in which credit may be established:

(1) College Board Advanced Placement Tests—Students with advanced training in a particular subject area should take the appropriate examination and have the results forwarded to Purdue.

(2) Purdue Advanced Credit Examinations—A number of students may be invited to take special examinations in various subject matter areas as determined by evidence of competency in CEEB testing and high school work.

Advanced standing and credit should not be confused with placement. Placement involves having students start at the correct level of a course within the freshman sequence. High school record and College Board SAT and Achievement test results are employed in making these placements. Placement involves no advance credit.

AUDITING CLASSES

Courses may be audited. No grades or credits are received. Attendance in class is permissible when the regular class fees are paid and the individual has declared himself as a visitor or listener.

Registration

ADVANCED REGISTRATION

Current students should preregister for fall, spring, and summer sessions at announced times. New students should preregister at the times specified by the registration officer. Advanced registration eliminates standing in line and assures preferential scheduling.

DELAYED REGISTRATION

For students who are unable to preregister, a three-day registration period is held just prior to the beginning of classes. Consult the current semester schedule for dates and times.

LATE REGISTRATION

Late registration lasts one week from the first day of classes. Late registration fees are explained on page 12.

DROPPING AND ADDING COURSES

A student may add a course to his schedule only during the first week of classes (first three days of summer school). In order to effect a withdrawal from any class, a student must notify the Registration Office at the time of withdrawal. Discontinuance of class attendance is not the basis for withdrawal, and students who do not notify the office when they plan to withdraw will be given a failing grade in each course involved. To drop a course, consult the fee refund schedule on page 12 and the directed grades explanation on page 13.

TRANSFER OF ENROLLMENT TO THE LAFAYETTE CAMPUS

Upon the completion of any semester or summer session a student may transfer his enrollment from the Barker Memorial Center to the Lafayette campus. To initiate this process the student must report to the registration officer and complete the necessary forms. Following this procedure he will receive an "Authorization for Enrollment" form from the Lafayette campus along with instructions for registration. Transfer students must return the student health form to the Health Center before registering at the Lafayette campus. Only students attending on regular status may transfer to the Lafayette campus.

Student Services

GENERAL COUNSELING

Counseling personnel are available for consultation about any matters of personal or general concern. Assistance is available in such matters as financial aid, job placement, campus activities, housing, and part-time employment.

Faculty advisers are assigned to assist each student to work out a program of study that will include all required courses and a wise choice of electives.

FINANCIAL AID

Scholarships

No student may be considered for financial assistance until he has been admitted to the University. High school students who plan to attend Purdue should apply for admission early in the senior year and arrange to take the

appropriate College Entrance Examination Board Tests in December of that year in order to insure early consideration of their requests for financial aid.

Students should make clear when filling in the application for financial aid that they plan to attend Barker Memorial Center. Most scholarship applicants will be notified of the action on their applications before their graduation from high school.

National Defense Loans

Entering freshmen follow the same procedure outlined for acquiring scholarships except that requests for loan applications should be directed to the Director of Student Loans, Agriculture Hall Annex, on the Lafayette Campus.

Aid for Current Students

Financial aid in the form of scholarships and loans is available for students already enrolled at the Barker Memorial Center.

INSURANCE

Low cost University accident and health insurance similar to the policy offered at the Lafayette Campus is offered annually to all students carrying an academic load of eight hours or more. Students may take advantage of the opportunity at the beginning of each semester.

STUDENT ACTIVITIES

Purdue encourages its students to participate in student activities in the belief that membership in an organization not only provides a broader educational base for the individual, but also adds wider experience to his personal assets. Many students find an opportunity to convert classroom theory into practical use in this manner. A number of clubs and organizations are active at the Barker Memorial Center. The clubs are generally self-directed and draw on the faculty for sponsorship and advice. Any registered student is eligible to participate in the activity program.

University Fees

Since catalog copy is, of necessity, prepared several months in advance, fees are subject to change by the Board of Trustees without notice. All fees are payable at the time of registration each semester.

Course Fees. For courses numbered 100-499, $15 per credit hour (nonresidents—$23 per credit hour) plus $4 per laboratory hour. For courses numbered 500 and above, $18 per credit hour (nonresidents—$26 per credit hour) plus $4 per laboratory hour. This fee schedule may not necessarily apply to special programs.

Costs for two semesters for full-time undergraduate students:

	Indiana Residents	Nonresidents
University fees*	$550	$700
Books and supplies	100	100
Total	$650	$800

This total does not include the cost of transportation, housing, and meals which will depend upon an individual's own desires.

* Varies slightly depending upon the courses selected.

Late Registration Fees.
$2 per course during the first week of classes with a maximum of $10.
$3 per course during the second week of classes with a maximum of $15.
A minimum of $5 always to apply.

Breakage Fees. Course fees include the cost of normal breakage and wear and tear on equipment. An additional charge will be levied against individuals for excessive waste, loss, or breakage that may occur. Such special charges must be paid before course credit will be given.

Diploma Fees. Students in applied technology must pay a $5 diploma fee not less than 30 days before the close of the semester in which they expect to complete their work for an associate degree.

Refunds. Course fees will be refunded under any one of the following conditions:

1. Withdrawal during first and second weeks of semester, 80 percent refund.
2. Withdrawal during third and fourth weeks of semester, 60 percent refund.
3. Withdrawal during fifth and sixth weeks of semester, 40 percent refund.
4. Withdrawal after sixth week of semester, no refund.

Deposits on equipment are subject to regular service and breakage charges.

Refunds are not transferable from one registration period to another or from one student to another.

To be eligible for a refund, the student must notify in person the registrar and complete the necessary withdrawal procedures.

Special Examination Fees. To establish credit by examination, a temporary student or a student currently enrolled carrying less than 12 credit hours must pay a fee of $25 per course.

Withdrawal. In order to effect a withdrawal from any class, a student must notify his assigned faculty advisor and registrar at the time of withdrawal. Discontinuance of class attendance is not the basis for withdrawal, and students who do not notify the office when they plan to withdraw will be given a failing grade in each course involved.

Grading

ASSIGNING OF GRADES

Instructors will assign each student a grade for each course in which he is enrolled at the close of a session. The student shall be responsible for the completion of all required work by the time of the last scheduled meeting in the course unless his assignment to the course has been properly cancelled. The grade shall indicate the student's achievement with respect to the objectives of the course.

For credit courses:

A—highest passing grade.
B
C
D—lowest passing grade; passing minimal objectives of the course.
E—conditional failure; failure to achieve minimal objectives, but only to such limited extent that credit can be obtained by examination or

otherwise without repeating the entire course. This grade represents failure in the course unless and until the record is duly changed within one semester. It cannot be changed to a grade higher than a "D."

F—failure to achieve minimal objectives of the course. The students must repeat the course satisfactorily in order to establish credit in it.

For zero credit courses (including thesis research but not including laboratory portions of courses in which, for purposes of scheduling, separate course designations and separate class cards are used for the laboratory sections):

S—satisfactory; meets course objectives.

U—unsatisfactory; does not meet course objectives.

For incomplete work, either credit or noncredit:

O—incomplete; no grade; a temporary record of work which was interrupted by unavoidable absence or other causes beyond a student's control, and which work was passing at the time it was interrupted. An instructor may require the student to secure the recommendation of the student affairs and guidance officer that the circumstances warrant a grade of incomplete. On the record a grade of "O" will be equivalent to a "W" unless and until the record is duly changed within one semester or the next semester the course is offered.

Directed grades. The registrar is directed to record the following grades and symbols under special circumstances:

W—withdrew; a record of the fact that a student was enrolled in a course and withdrew or cancelled the course after the last date for late registration and adding courses.

WF—withdrew failing; a record of course cancellation after the last date for cancelling a course without grade, at which time, according to a statement from the instructor, the student was not passing in his work. This grade counts in all respects as a failing grade.

A grade of "WF" may be directed by the dean of men, the dean of women, or the Committee on Scholastic Delinquency and Readmission when a student is dropped from a course for serious scholastic delinquency.

GOOD STANDING

For purposes of reports and communications to other institutions and agencies and in the absence of any further qualification of the term, a student shall be considered in good standing unless he has been dismissed, suspended, or dropped from the University and has not been readmitted.

SCHOLARSHIP INDEXES

The scholarship standing of all regular students enrolled in programs leading to an undergraduate degree shall be determined by two scholarship indexes, the Semester Index and the Graduation Index.

(a) The Semester Index is an average determined by weighting each grade received during a given semester by the number of semester hours of credit in the course.

(b) The Graduation Index is a weighted average of all grades received by a student while in the curriculum in which he is enrolled plus all

other grades received in courses taken in other curricula offered by the University and properly accepted for satisfying the requirements of the curriculum of the school in which the student is enrolled. With the consent of his adviser, a student may repeat a course. In the case of courses which have been repeated or in which conditional grades have been removed by examination or for which a substantially equivalent course has been substituted, the most recent grade received shall be used.

(c) For the purpose of averaging, each grade shall be weighed in the following manner:

A—6 x semester hours = index points
B—5 x semester hours = index points
C—4 x semester hours = index points
D—3 x semester hours = index points
E, F, WF 2 x semester hours = index points
O, W not included

GRADUATION INDEX REQUIREMENT

A minimum Graduation Index of 4.00 is required for graduation.

SCHOLASTIC PROBATION

A candidate for the bachelor's or associate degree shall be placed on probation if his semester or graduation index at the end of any semester is less than that required for a student with his classification as shown in Table A. A student on probation shall be removed from that status at the end of the first subsequent semester in which he achieves semester and graduation indexes equal to or greater than those required for a student with his classification as shown in Table A. Any grade change due to a reporting error will require reconsideration of probation status.

Temporary students who do not achieve academic standing required of regular students may be discontinued. Probation is concerned only with the regular semesters and not with the summer sessions and intensive courses.

TABLE A. INDEX LEVELS FOR PROBATION
S = Semester Index; G = Graduation Index

Classification	S	G
1	3.5	3.5
2	3.5	3.5
3	3.6	3.75
4	3.6	3.90
5	3.7	3.95
6	3.7	4.0
7	3.7	4.0
8 and up	3.7	4.0

DROPPING OF STUDENTS FOR SCHOLASTIC DEFICIENCY

A student on scholastic probation shall be dropped from the University if at the close of any semester the semester or graduation index is less than that

required of a student with his classification as shown in Table B. This rule shall not apply for the semester in which the student completes all requirements for his degree. A student dropped by this rule and later duly readmitted as a regular student shall be readmitted on probation.

TABLE B. INDEX LEVELS FOR DROPPING
S = Semester Index; G = Graduation Index

Classification	S	G
1*	3.2	3.2
2	3.3	3.3
3	3.4	3.5
4	3.4	3.6
5	3.5	3.7
6	3.5	3.8
7	3.5	3.85
8 and up	3.5	3.9

* Affects only students entering on probation.

DISTINGUISHED STUDENTS

Regular undergraduate students, carrying at least 14 semester hours, who successfully complete all their courses with a grade "C" or higher and obtain a semester scholarship index of 5.50 or better will be designated as distinguished for that semester.

DEGREES WITH DISTINCTION

Degrees are awarded at the end of each semester and summer session to candidates who have completed the requirements of their schools. At each of these periods degrees with distinction are awarded to those completing the undergraduate plans of study under the following rules:

(a) Distinction at graduation shall be awarded on the basis of all course work taken. Baccalaureates with distinction shall be granted only to those who complete the four (or five) year curricula at Purdue and not to those who complete only the first three years at Purdue.

(b) A candidate for the baccalaureate with distinction must have earned at least 70 hours of credit at Purdue. A candidate for an associate degree with distinction must have earned at least 45 hours of credit at Purdue.

For any student to qualify for distinction, his scholarship index for all work completed must be at least 5.00.

(c) If the number of graduates in any school who qualify for distinction under rules (a) and (b) exceed one-tenth of the total number of graduates from that school and for that semester or summer session, the number of degrees with distinction shall be limited to one-tenth of the class in that school, and those graduates with highest indexes shall be included. In administering this rule all baccalaureate engineering graduates will be considered as one school and all associate degree graduates will be considered as one school.

(d) Of those students who qualify for distinction under these rules, the three-tenths of the baccalaureate graduates having the highest indexes shall be

designated as graduating with highest distinction, irrespective of the schools to which they may belong. The three-tenths of the associate degree graduates having the highest indexes will be designated as graduating with highest distinction.

(e) No student with a record of faculty discipline shall be included without special approval by the faculty.

Plans of Study

ABBREVIATIONS

A&D—Art and Design
AGR—Agriculture
AGRY—Agronomy
ARET—Architectural Engineering Technology
BIOL—Biological Sciences
CE—Civil Engineering
CES—Civil Engineering Service Courses
CET—Civil Engineering Technology
CHE—Chemical Engineering
CHM—Chemistry
C&T—Clothing and Textiles
CMET—Chemical and Metallurgical Engineering Technology
CS—Computer Sciences
CPT—Computer Technology
ECON—Economics
ED—Education
EE—Electrical Engineering
EET—Electrical Engineering Technology
EG—Engineering Graphics
ENGL—English
ENGR—Engineering
ESC—Engineering Sciences
F&N—Foods and Nutrition
FOR—Forestry and Conservation
FR—French
GER—German
GNT—General Studies
GS—General Studies
HIST—History
IED—Industrial Education
IET—Industrial Engineering Technology
INDM—Industrial Management
MA—Mathematics
ME—Mechanical Engineering
MSE—Materials Sciences and Metallurgical Engineering
MET—Mechanical Engineering Technology
NT—Nursing Technology
PEMN—Physical Education for Men
PEW—Physical Education for Women
PHAR—Pharmacy
PHCH—Pharmaceutical Chemistry
PHIL—Philosophy
PHYS—Physics
POL—Political Science
PST—Physical Sciences Technology
PSY—Psychology
RUSS—Russian
SOC—Sociology
SPAN—Spanish
SPE—Speech
STAT—Statistics

School of Agriculture

The School of Agriculture trains students for many types of agricultural work, including not only farming but also related educational and industrial activities. Nine departments in the School of Agriculture offer optional programs preparing students for jobs in research, teaching, and extension, as well as in various related commercial enterprises. Instructional work is based on fundamental training in biology, chemistry, and physics, together with courses in history, economics, English, psychology, and other similar fields.

A limited amount of work may be taken at the Barker Memorial Center in the areas of general agriculture, forestry and conservation, and preveterinary science and medicine.

REQUIRED FRESHMAN YEAR*

First Semester		Second Semester	
(4)	BIOL 109 (Introduction to Zoology)	(4)	BIOL 108 (Introduction to Botany)
(3)	CHM 111 (General Chemistry)	(3)	CHM 112 (General Chemistry)
(3)	ENGL 101 (English Composition I)	(3)	SPE 114 (Fundamentals of Speech Communication)
(3)	MA 153 (Algebra and Trigonometry I)	(3)	MA 154 (Algebra and Trigonometry II)
(3)	Elective	(6)	Electives
(3)	Elective*		
(19)		(19)	

AGRICULTURAL ENGINEERING

See Freshman Engineering Programs.

PREVETERINARY CURRICULUM

An organized four-semester preveterinary curriculum, closely approximating the requirements listed in the catalog of the School of Agriculture, is available at the Barker Memorial Center. This program is designed to qualify the student for admission to the School of Veterinary Science and Medicine. However, if the student is not admitted or does not wish to enter the School of Veterinary Science and Medicine, the curriculum provides a strong program in the biological and physical sciences, which may be used as a basis for continued training in the School of Agriculture should the Bachelor of Science in Agriculture degree be desired.

FRESHMAN YEAR

First Semester		Second Semester	
(3)	ENGL 101 (English Composition I)	(3)	ENGL 102 (English Composition II)
(4)	CHM 111 (General Chemistry)	(4)	CHM 112 (General Chemistry)
(3)	MA 153 (Algebra and Trigonometry I)	(4)	BIOL 108 (Introduction to Botany)
(4)	BIOL 109 (Introduction to Zoology)	(3)	SPE 114 (Fundamentals of Speech Communication)
(3)	Elective	(3)	MA 154 (Algebra and Trigonometry II)
(17)		(17)	

Schools of Engineering

Undergraduate instruction in engineering, agricultural engineering, chemical engineering, civil engineering, electrical engineering, engineering sciences, industrial engineering, materials science and metallurgical engineering, and mechanical engineering leads to the degree of Bachelor of Science. In order to

* There are slight variations in academic program for students following programs in agricultural science, biochemistry, food technology, and forestry and conservation.

give the student sufficient time to adjust himself and to choose the branch of engineering for which he is best adapted, the following program of study during the freshman year is common for all engineering curricula. Only those students with adequate background training will be expected to accomplish this in two semesters. Students with inadequate preparation, particularly in mathematics and chemistry, may require an additional semester or summer session to attain sophomore standing. Sophomore plans of study available in some of the fields of engineering are indicated.

GENERAL EDUCATION PROGRAM

All engineering students are required to take a minimum of 24 credit hours of general education courses. These hours are distributed as indicated below.

1. Six credit hours in communications are required in the freshman engineering program. These are ENGL 101 or 103 and SPE 114.

2. The remaining 18 credit hours must be selected from two groups of course sequences, the first group being in the social sciences and the second group being in fine arts and humanities.

3. Each student must select one 12-hour sequence and one 6-hour sequence. No student may elect a 6-hour sequence from the same group from which he chose a 12-hour sequence.

GROUP I

12-hour sequences
Sociology and/or Psychology
Economics
Foreign Language and Culture
Political Science

6-hour sequences
List same as above.

GROUP II

12-hour sequences
Creative Arts
General Studies
Literature
Speech and/or Theatre
Independent Reading
History
Philosophy

6-hour sequences
Same as above except General Studies

The above sequences are set up to give depth to the various programs in the social sciences, fine arts, and humanities. A pamphlet stating the objectives of the program in general education is available from the academic counselors.

FRESHMAN ENGINEERING

Program A: Students fully qualified upon entrance.

First Semester		Second Semester	
(4)	CHM 115	(4)	CHM 116
(5)	MA 161	(5)	MA 162
(3)	SPE 114 or ENGL 101	(3)	ENGL 101 or SPE 114
(1)	ENGR 100	(4)	PHYS 152
(3)	EG 118	(3)	General Elective
(3)	General Elective		
(19)		(19)	

Program B: Students with below average preparation in mathematics.

(4)	CHM 115	(4)	CHM 116
(5)	MA 151	(5)	MA 161
(3)	ENGL 101 or SPE 114	(3)	SPE 114 or ENGL 101
(1)	ENGR 100	(6)	General Electives
(3)	EG 118		
(16)		(18)	

Program C: Students with below average preparation in chemistry.

(3)	CHM 111	(3)	CHM 112
(5)	MA 161	(5)	MA 162
(3)	SPE 114 or ENGL 101	(3)	ENGL 101 or SPE 114
(1)	ENGR 100	(4)	PHYS 152
(3)	EG 118	(3)	General Elective
(3)	General Elective		
(18)		(18)	

Program D: Students with below average preparation in chemistry and mathematics.

(3)	CHM 111	(3)	CHM 112
(5)	MA 151	(5)	MA 161
(3)	ENGL 101 or SPE 114	(3)	SPE 114 or ENGL 101
(1)	ENGR 100	(6)	General Electives
(3)	EG 118		
(15)		(17)	

School of Home Economics

The plan of study in home economics is designed to prepare young men and women for professional work in the various areas of the field and at the same time to provide a broad general education which prepares the student to meet the needs for home and community living.

Areas of concentration include clothing and textiles, foods and nutrition, food management, foods in business, food research, home economics extension, housing, and vocational home economics teaching.

Students interested in preparation for work in the fields mentioned above should enroll in the curriculum listed below.

FRESHMAN YEAR

First Semester		Second Semester	
(3)	ENGL 101 or 103 (English Composition I)	(3)	ENGL 102 (English Composition II)
(3)	CHM 111 (General Chemistry)	(3)	CHM 112 (General Chemistry)
(3)	Mathematics	(3)	ENGL 240 (English Literature)
(3)	SOC 100 (Introductory Sociology)	(3)	PSY 120 (Elementary Psychology)
(3)	SPE 114 (Fundamentals of Speech Communication)	(3)	ECON 210 (Principles of Economics)
		(1)	ENGL 185 (Developmental Reading)
(15)		(16)	

School of Humanities Social Science, and Education

Three bachelor's degrees are offered in the School of Humanities, Social Science, and Education: Bachelor of Arts, Bachelor of Science, and Bachelor of Physical Education. All programs leading to these degrees have certain requirements in common:

A. Satisfaction of the minimum scholastic index requirement as established by the faculty;

B. The general University requirements for residence, payment of diploma fee, attendance at commencement exercises, etc. For further details about these requirements, see the *General Information Bulletin.*

Bachelor of Arts and Bachelor of Science

The program leading to the degree Bachelor of Science is followed by students majoring in audiology and speech sciences or psychology. The program leading to the degree Bachelor of Arts is followed by students majoring in any of the fields of humanities or social sciences, in high school teaching in any of these fields, or by women students preparing to teach physical education.

In addition to the University-wide requirements for the bachelor's degree, the requirements for the Bachelor of Arts and Bachelor of Science degrees are: (a) completion of the required courses listed under General Education Requirements, which are designed to insure the broad liberal education of the student; (b) selection of an area, a concentration, or a major, and the completion of the requirements on file in the office of the dean; and (c) completion of at least 126 semester hours of credit within ten years preceding the date of graduation.

GENERAL EDUCATION REQUIREMENTS

About one half of the total program is devoted to the satisfaction of "core requirements," which have been chosen with a view to broadening the student's background. These requirements for the B.A. and B.S. degrees are:

English Composition (ENGL 101, 102 or 103 or equivalent)	6 hours
Speech (SPE 114)	3 hours
Foreign Language (Courses numbered 101, 102, 203, 204; or proficiency in 204 or higher in one modern foreign language)	12 hours
Literature (any six hours for which a student is qualified, in English, or in a foreign language)	6 hours
Mathematics (MA 123, 124; or 133, 134; or 153, 154)	6 hours
Natural or Physical Science (a six-hour laboratory sequence in biology, chemistry, or physics)	6 hours
Social and Behavioral Sciences	
(a) history (HIST 200 or 251)	3 hours
(b) sociology or psychology (SOC 100 or PSY 120)	3 hours
(c) political science or economics (POL 101 or ECON 210)	3 hours

(d) Two additional courses of three hours each from any two of the above five subjects	6 hours
Philosophy (PHIL 210, 211, or 250)	3 hours
General Studies (GS 435 *or* 436)	2 hours
Art, Music, Theater (A&D 355, 356, or 357; or SPE 240, 250, 353, or 356, or GS 370, 372, 373 or 375)	3 hours
	62 hours

CONCENTRATION REQUIREMENTS

There are three patterns of concentration: (1) the *area* (maximum of 46 hours, of which at least 12 are in courses outside the major department); (2) the *concentration* (36 to 46 hours); and (3) the *major* (24 to 35 hours). Each department specifies whether its major must be accompanied by a minor. This major, concentration, or area provides the depth necessary for admission to a graduate school, to meet teacher certification requirements, or for a well-rounded liberal education.

Each student must file his choice of major, area, or concentration at the office of the dean, not later than the end of the third semester. He may subsequently change his major, with permission of the dean.

BA. and B.S. Degrees

AREAS, CONCENTRATIONS, AND MAJORS

ART
- Advertising Design
- Fine Arts
- Interior Design

AUDIOLOGY AND SPEECH SCIENCES
- Audiology and Speech Sciences
- Speech and Hearing Therapy

CHILD DEVELOPMENT AND FAMILY LIFE
- Human Development

ENGLISH
- American Literature
- Creative Writing
- English Honors
- English Literature
- Journalism
- Technical Writing

FOREIGN LANGUAGE
- French
- German
- Russian
- Spanish

HISTORY
- American Civilization
- American History
- European History

LIBRARY SCIENCE

PHILOSOPHY

PHYSICAL EDUCATION, HEALTH, AND RECREATION
- Health and Safety
- Recreation

POLITICAL SCIENCE
- Comparative Government
- International Relations
- Political Science
- Political Theory

PRE-LAW

PSYCHOLOGY

SOCIOLOGY

SPEECH
- Deliberative Speech
- General Speech
- Theatre

MINORS

Audiology and Speech Sciences
Economics
French
German
Health and Safety
History
Journalism
Library Science
Literature
Mathematics
Music History and Theory
Philosophy
Political Science
Psychology
Radio and Television
Recreation
Russian
Sociology
Spanish
Speech
Theatre

PROGRAMS FOR TEACHER CERTIFICATION

Teaching Area Majors

Arts and Crafts
Physical Education and Health (Women)

Teaching Majors

Arts and Crafts
Elementary Education
  Library
  Nursery-Kindergarten
  Special Education (Teaching the Mentally Retarded)
English Honors
English
Foreign Language
  French
  German
  Russian
  Spanish
Physical Education and Health (Women)
School Library and Audiovisual Services
Social Studies—two of:
  Economics
  Government
  Sociology
  U. S. History
  World History
Speech
Speech and Hearing Therapy

Teaching Minors

Arts and Crafts
Biology
Chemistry
English
Foreign Language
  French
  German
  Russian
  Spanish
General Science
Health and Safety
Mathematics
Physical Education (Men)
Physical Education (Women)
Physics
Psychology
Recreation
School Library and Audiovisual Services
Social Studies—one of:
  Economics
  Government
  Sociology
  U. S. History
  World History
Speech

In teacher preparation, Purdue University has been accredited by the National Commission on Accreditation of Teacher Education, by the North Central Association of Secondary Schools and Colleges, and by the Indiana State Department of Public Instruction. Detailed requirements for any of the areas, majors, or minors may be obtained from the student counseling office of the school. A student who has an educational objective not covered in the list of areas, majors, or minors should consult Assistant Dean George P. Salen.

Each student's program for the four years will be based on one of several plans of study, appropriately modified to fit his concentration requirements and his exemptions, i.e., proficiency in modern language, ENGL 103, etc.

Students who plan to teach in high school will use the plan of study for the major subject-matter field of the teaching certificate for which they expect to qualify.

BACHELOR OF ARTS—GENERAL PROGRAM

FRESHMAN YEAR

First Semester		Second Semester	
(4)	BIOL 108 (Introduction to Botany)	(4)	BIOL 109 (Introduction to Zoology)
(3)	ENGL 101 (English Composition I)	(3)	SPE 114 (Fundamentals of Speech Communication)
(3)	MA 123 (Elementary Concepts of Mathematics I)	(3)	MA 124 (Elementary Concepts of Mathematics II)
(3)	Modern Language	(3)	Modern Language
(3)	Social Science	(3)	ENGL 102 (English Composition II)
(2-3)	Elective or Physical Education	(1)	ENGL 185 (Developmental Reading)
		(1-3)	Elective or Physical Education
(18-19)		(18-20)	

SOPHOMORE YEAR

First Semester		Second Semester	
(3)	ENGL 240 (English Literature)	(3)	ENGL 241 (English Literature)
(3)	Social Science	(3)	Social Science
(3)	Modern Language	(3)	Modern Language
(3)	PHIL 210 (Introduction to Philosophy)	(3)	PHIL 211 (Ethics)
(3)	PSY 120 (Elementary Psychology)	(3)	Social Science
(1)	Physical Education	(1)	Physical Education
(16)		(16)	

ELEMENTARY EDUCATION

Preparation in elementary education is offered to a limited number of students chosen on the basis of above-average scholarship, leadership qualities, good mental and physical health, and positive attitudes toward children and teaching as a profession. In addition to the core program of all students and the professional program in elementary education the student will have 24 semester hours for a major in the field of his choice.

FRESHMAN YEAR

First Semester		Second Semester	
(3)	ENGL 101 (English Composition I)	(3)	BIOL 206 (Biology for Elementary School Teachers)
(3)	BIOL 205 (Biology for Elementary School Teachers)	(3)	HIST 252 (The United States and Its Place in World Affairs)
(4)	MA 133 (Mathematics for Elementary School Teachers I)	(4)	MA 134 (Mathematics for Elementary School Teachers II)
(3)	HIST 251 (American History to 1865)	(3)	ENGL 102 (English Composition II)
(3)	Modern Language	(3)	Modern Language
(16)		(16)	

SOPHOMORE YEAR

First Semester		Second Semester	
(3)	SPE 114 (Fundamentals of Speech Communication)	(3)	PHIL 210 (Introduction to Philosophy)
(3)	PSY 120 (Elementary Psychology)	(3)	ED 285 (Educational Psychology)
(3)	POL 101(Introduction to Government)	(3)	Modern Language or second major
(3)	Modern Language or second major	(3)	Social Science 2*
(3)	Literature Elective	(3)	Aesthetics†
(15)		(15)	

PHYSICAL EDUCATION (WOMEN)

FRESHMAN YEAR

First Semester		Second Semester	
(3)	ENGL 101 or 103 (English Composition)	(3)	ENGL 102 (English Composition)
(3)	SPE 114 (Fundamentals of Speech Communication)	(3)	PSY 120 (Elementary Psychology)
(3)	MA 123 (Elementary Concepts of Mathematics I)	(3)	MA 124 (Elementary Concepts of Mathematics II)
(3)	Modern Language	(3)	Modern Language
(3)	Social Science	(3)	Social Science
(1)	PEW 103 (Personal Hygiene)	(1)	ENGL 185 (Developmental Reading)
(16)		(16)	

* Social Science 2 should be SOC 100 or POL 103.

† Aesthetics may be taken from GS 370, A&D 355, 356, or 357.

BACHELOR OF SCIENCE: PSYCHOLOGY

FRESHMAN YEAR

First Semester		Second Semester	
(3)	ENGL 101 (English Composition I)	(3)	ENGL 102 (English Composition II)
(3)	SPE 114 (Fundamentals of Speech Communication)	(3)	PSY 120 (Elementary Psychology)
(3)	Mathematics	(3)	Mathematics
(3)	Modern Language	(3)	Modern Language
(3)	Social Science	(3)	Social Science
(15)		(15)	

AUDIOLOGY AND SPEECH SCIENCES

FRESHMAN YEAR

First Semester		Second Semester	
(3)	BIOL 201-202 (Biology of Man)	(3)	BIOL 203-204 (Biology of Man)
(3)	ENGL 101 (English Composition I)	(3)	ENGL 102 (English Composition II)
(3)	MA 153 (Algebra and Trigonometry I)	(3)	MA 154 (Algebra and Trigonometry II)
(3)	Modern Language	(3)	Modern Language
(3)	Social Science	(3)	Social Science
(15)		(15)	

BACHELOR OF PHYSICAL EDUCATION

In order to qualify for the degree of Bachelor of Physical Education the student must fulfill the following requirements:

A. Complete the curriculum requirements for one of the options in physical education and

B. Complete at least 138 hours of credit.

At the end of a common freshman year, the students may choose one of four options. Option A is designed for those students who wish to become athletic coaches and teachers of health and physical education. Option C offers the student techniques of remedial or therapeutic practices in physical education and is intended to prepare the student for admission to a school of physical therapy. Option B is a special non-teacher-preparation program to be arranged with an adviser. It has the same over-all requirements as the other two options. Option D is for those who wish to become athletic trainers, and requires special counseling.

FRESHMAN YEAR

First Semester		Second Semester	
(4)	BIOL 109 (Introduction to Zoology)	(4)	BIOL 108 (Introduction to Botany)
(3)	ENGL 101 (English Composition I)	(3)	ENGL 102 (English Composition II)
(3)	SOC 100 (Introductory Sociology)	(3)	SPE 114 (Fundamentals of Speech Communication)
(3)	PSY 120 (Elementary Psychology)	(3)	SOC 220 (Social Problems)
(3)	Elective	(1)	ENGL 185 (Developmental Reading)
		(3)	Social Science
(16)		(17)	

School of Industrial Management

Industrial Management

As modern society makes increasing use of technology, managers must keep informed to handle their own jobs effectively and to be able to understand and cooperate with the technical specialist. The industrial management curriculum, by including a required technical sequence, enables the student to take advantage of Purdue's excellent resources in science and technology. Through the technical option, students are provided an opportunity to acquire a basic understanding of a specific area in the field of science and technology. Such an objective is essential if the individual is to be capable of working effectively with engineers and scientists in a technically-based industry.

Included in the curriculum is a concentration of mathematics and quantitative methods courses designed to provide the necessary training and background in the use of rigorous analytic techniques applicable to management decisions. This program is designed to help the student develop this kind of broad understanding of the management process.

An administrator cannot be made in the short span of a few months or a year. Indeed, most individuals require years of experience to develop the skills, insights, and maturity of judgment which distinguish an effective manager. However, a professional management curriculum can give the student an effective start in his development as a manager. In brief, it can help him become a more useful member of his organization early in his career, and it can aid him in learning and growing more rapidly in positions of increasing responsibility.

Economics

In contrast to the technically-based internal approach utilized in the management program, the economics curriculum provides a coordinated series of courses in the field of economics and business as a means of developing a broad fundamental background in business organizations and the economic environment in which a business operates. The program includes four two-semester sequences covering economic principles, aggregative economics, statistics, and accounting, plus courses in business law and managerial economics. In addition, three related courses in economics and business, of special interest to the student, make possible a degree of specialization. Elective hours permit

either further concentration in economics or enrichment in the general education area.

Business leaders, employment officials, and schools for advanced study, such as law schools, have endorsed this type of economics and business education with liberal arts background. The program satisfies the need of future junior business executives for a broad, liberal-arts-oriented base on which to build specific training and experience received on the job.

INDUSTRIAL MANAGEMENT

FRESHMAN YEAR

First Semester		Second Semester	
(4)	CHM 115 (General Chemistry)	(4)	CHM 116 (General Chemistry)
(5)	MA 161 (Mathematics for Engineering and the Physical Sciences I)	(5)	MA 162 (Mathematics for Engineering and the Physical Sciences II)
(3)	ENGL 101 (English Composition I)	(3)	SPE 114 (Fundamentals of Speech Communication)
(3)	POL 101 (Introduction to Government)	(3)	ENGL 102 (English Composition II)
(1)	ENGL 185 (Developmental Reading)	(3)	Electives
(3)	Electives		
(19)		(18)	

ECONOMICS

FRESHMAN YEAR

First Semester		Second Semester	
(3)	ENGL 101 (English Composition I)	(3)	ENGL 102 (English Composition II)
(3)	MA 153* (Algebra and Trigonometry I)	(3)	MA 154* (Algebra and Trigonometry II)
(3)	HIST 251 (American History to 1865) or HIST 200 or 252	(3)	Modern Language†
(3)	Modern Language†	(3)	Social Science Elective
(3)	Science Elective‡	(3)	Science Elective‡
(3)	Electives	(3)	Electives
(18)		(18)	

SOPHOMORE YEAR

Third Semester		Fourth Semester	
(3)	ECON 210 (Principles of Economics I)	(3)	SPE 114 (Fundamentals of Speech Communication)
(3)	INDM 200 (Basic Accounting)	(3)	ECON 212 (Principles of Economics II)
(3)	Literature	(3)	Literature
(3)	Philosophy	(3)	Modern Language†
(3)	Modern Language†	(3)	Elective
(3)	Elective		
(18)		(15)	

* A higher level course may be taken, depending on student's mathematics background.

† Franch, German, Russian, Spanish, except by permission of the dean of the school.

‡ Elective areas are biology, chemistry, and physics.

School of Science

The School of Science consists of the Department of Biological Sciences, the Department of Chemistry, the Department of Physics, and the Division of Mathematical Sciences.

Curricula leading to two degrees, Bachelor of Science and Bachelor of Science in Chemistry, are offered by the School of Science. Specific details of these curricula and the requirements for the degrees are listed in the School of Science catalog.

The School of Science offers training to selected students who wish to prepare themselves to teach in the fields of biology, chemistry, mathematics, physics, or in certain combinations of these fields.

BACHELOR OF SCIENCE DEGREE

General Education Requirements

The following general requirements for the B.S. degree in the School of Science are supplemented by requirements of the department of the student's major. Particular attention is drawn to modifications allowed in the curricula for prospective high school teachers (as indicated below).

1. A total of 124 semester hours, plus physical education or military science as specified by the University.

2. English composition: ENGL 101 and 102, or ENGL 103 entered by achievement examination and completed with a grade of C or better.

3. Modern foreign language: Pass a fourth-semester college-level course in a modern foreign language, or pass an equivalent proficiency examination. In high school teacher curricula, the student must pass a second-semester college-level course in a modern foreign language or pass a proficiency examination.

4. Humanities, social science, and behavioral sciences: The minimum requirement is 18 hours, but it is strongly recommended that the student take more than a minimal program. Six hours must be chosen from each of two of the following areas: (a) literature, philosophy; (b) history, political science; and (c) economics, sociology, psychology. In addition, a satisfactory two-course sequence must be chosen from one of the above areas.

5. Mathematics: At least 11 hours.

6. Science: Each student must take at least four courses in laboratory science (biology, chemistry, geology, physics) *outside his major area.* It is preferable that he take two-course sequences in each of two sciences; in no case shall he satisfy this requirement by courses drawn from more than two sciences.

BIOLOGICAL SCIENCES, PREMEDICINE, PREDENTISTRY, AND MEDICAL TECHNOLOGY

FRESHMAN YEAR

First Semester		Second Semester	
(4)	BIOL 109 (Introduction to Zoology)	(4)	BIOL 108 (Introduction to Botany)
(4)	CHM 115 (General Chemistry)	(4)	CHM 116 (General Chemistry)
(3)	ENGL 101 (English Composition I)	(3)	SPE 114 (Fundamentals of Speech Communication)
(3)	MA 153 (Algebra and Trigonometry I)	(3)	MA 154 (Algebra and Trigonometry II)
(3)	Modern Language*	(3)	Modern Language
(3)	Elective	(3)	Elective
(20)		(20)	

CHEMISTRY

FRESHMAN YEAR

First Semester		Second Semester	
(4)	CHM 115 (General Chemistry)	(4)	CHM 116 (General Chemistry)
(3)	ENGL 101 (English Composition I)	(3)	SPE 114 (Fundamentals of Speech Communication)
(3)	GER 101 (First Course in German)	(3)	GER 102 (Second Course in German)
(5)	MA 161 (Mathematics for Engineering and the Physical Sciences I)	(5)	MA 162 (Mathematics for Engineering and the Physical Sciences II)
(3)	Elective	(4)	PHYS 152 (Mechanics and Sound)
(18)		(19)	

MATHEMATICS

FRESHMAN YEAR

First Semester		Second Semester	
(5)	MA 161 (Mathematics for Engineering and the Physical Sciences I)	(5)	MA 162 (Mathematics for Engineering and the Physical Sciences II)
(3)	ENGL 101 (English Composition I)	(3)	SPE 114 (Fundamentals of Speech Communication)
(3)	Modern Language	(3)	Modern Language
(4)	Science Elective	(4)	Science Elective
(3)	Elective	(3)	Elective
(18)		(18)	

* German or Russian is recommended.

PHYSICS

FRESHMAN YEAR

First Semester		Second Semester	
(3)	ENGL 101 (English Composition I)	(4)	CHM 116 (General Chemistry)
(4)	CHM 115 (General Chemistry)	(5)	MA 162 (Mathematics for Engineering and the Physical Sciences II)
(5)	MA 161 (Mathematics for Engineering and the Physical Sciences I)	(4)	PHYS 152 (Mechanics and Sound)
(1)	ENGL 185 (Developmental Reading)	(3)	Modern Language
(3)	Modern Language		
(16)		(16)	

PREPHARMACY

The Purdue School of Pharmacy and Pharmacal Sciences does not admit students directly from high school. Students wishing to prepare for the profession of pharmacy register in the School of Science for the prepharmacy program and apply for transfer to the School of Pharmacy and Pharmacal Sciences at the end of the freshman year. Application for the transfer should be filed with the dean of the Pharmacy School or with the pharmacy adviser before April 1. Students who, for any reason, do not transfer to the School of Pharmacy and Pharmacal Sciences may apply for transfer to any other school of the University or may remain in the School of Science with a change of educational objective.

FIRST YEAR

First Semester		Second Semester	
(3)	MA 153 (Algebra and Trigonometry I)	(3)	MA 154 (Algebra and Trigonometry II)
(3)	CHM 111 (General Chemistry)	(3)	CHM 112 (General Chemistry)
(3)	ENGL 101 (English Composition I)	(3)	SPE 114 (Fundamentals of Speech Communication)
(3)	SOC 100 (Introductory Sociology)	(3)	PSY 120 (Elementary Psychology)
(3)	Elective	(1)	ENGL 185 (Developmental Reading)
		(3)	Elective
(15)		(16)	

School of Technology

DIVISION OF APPLIED TECHNOLOGY

The University has a number of two-year undergraduate programs leading to the degree of Associate in Applied Science. The work offered in these programs is of University grade as are all undergraduate courses, but the offerings are much more applied in nature.

The associate degree is awarded to each student who satisfactorily completes the program of study in one of the curricula. Graduates can expect to be immediately employable in industry. They may be admitted to the new third- and fourth-year curricula specifically designed to lead to a Bachelor of Science degree especially for engineering technicians. Or, such graduates may be admitted to the curricula leading to a degree of Bachelor of Science in Industrial Education.

The Nature of Applied Technology

Scientific and technological complexity ranges over a very broad spectrum, extending all the way from extremely simple activity to highly complex and abstract activity. At one extreme is the pure scientist and the engineering scientist; at the other end is the mechanic and the craftsman.

The Engineer. A professional engineer's work is mostly mental in character. He studies and reasons and visualizes how new bits of knowledge may be put to practical use. The vast majority of engineers do not need manual dexterity with tools. Among the activities they engage in are design of tools, structures, mechanisms, circuits, or processes; the layout of industrial plants; the planning of industrial processes; research and development; administrative duties in production; sales planning and development; controlling the quality of manufactured products through testing and inspection; and planning systems for the distribution of power and for electronic communications.

The Engineering Technician. An engineering technician engages in work that requires some of the knowledge and skills of both the professional engineer and the skilled craftsman. He is required to know basic theories and to apply them in helping to solve the complex problems of modern industry. In this way the engineering technician carries out vitally important assignments and takes his place on the engineering team.

The engineering technician usually specializes in one aspect of engineering. He might, for example, work as a draftsman, a detail designer, a cost estimator, a production supervisor, a research assistant, a quality-control supervisor, a time-study man, an expediter, a technical salesman, or a production planner.

The Skilled Craftsman. The work of the engineer and the technician would be meaningless without the contribution of the skilled craftsman who carries out engineering ideas. A toolmaker, for example, fabricates a jig or die from a design conceived by the engineer and detailed by the technician. The electrician, pipefitter, welder, machinist, chemical operator, and surveyor's rodman likewise use their skills to carry out the work of the engineering team.

Need. Our present space age, with its exploding accumulation of new information and scientific discovery, has increased the need for people with specialized training in science and technology. Experts have recently estimated that our nation's engineering schools must graduate twice the present 35,000 engineers per year if we are to meet the expanding needs.

Since it now appears improbable that our nation will be able to attain the goal of 70,000 to 80,000 engineers per year another approach to the problem is necessary. The most reasonable solution appears to be one of making the present professional engineer more efficient by providing him with assistance in the form of an engineering technician. Many experts believe there should be a ratio of from three to five engineering technicians for each engineer.

This would indicate that 100,000 to 150,000 engineering technicians should be trained per year.

Currently the United States has only about 16,000 graduates of engineering technology programs coming on the job market each year. This simply means there is a large, unsatisfied demand for engineering technicians. The opportunities in this field are virtually unlimited.

Developed With Industrial Cooperation

Various courses are offered to cover the basic knowledge and practices of present-day industry. Industrial leaders have been consulted to learn the kind of specific technical information required by persons who take jobs in industry. Many members of the instructional staff are drawn from local industries, but course administration, teaching material, and standards of instruction are under the direction of the departments involved.

Programs

The applied technology programs consist of:

1. *Day programs.* These programs are primarily for students with little or no industrial experience—directly out of high school or military service. They are two years in duration and lead to the degree of Associate in Applied Science in the curriculum studied. Students admitted to these programs are classified as regular students. See entrance requirements on page 6.
2. *Evening programs.* These programs are planned to serve industrial employees or others who because of many reasons, cannot attend day school programs. These include:
   (a) *Programs* in the selected fields of technology which lead to the degree of Associate in Applied Science. Students admitted to these programs are classified as regular evening school students. See entrance requirements on page 6.
   (b) *Certificate programs* have been designed for the more mature adult either in industrial employment already or desiring technical industrial employment. They are designed to be as concentrated and immediately practical as possible for students who have limited time or funds available for formal education. Students admitted to this program are classified as temporary students but upon completion of an approved program may continue in the two-year associate degree program providing:
      (1) The student qualifies for reclassification as a regular student.
      (2) Not more than 12 credit hours taken as a temporary student are counted toward his degree.
   (c) *Special service programs.* The Division of Applied Technology cooperates with individual industries or communities in the development and operation of specialized training programs. Such service is rendered without charges other than the regular fees assessed for student enrollment in classes.

ARCHITECTURAL ENGINEERING TECHNOLOGY

This curriculum is designed to prepare students for technological employment with contractors, building materials suppliers, architects, civil engineers, and related governmental agencies.

Emphasis is placed on construction materials and processes, specifications, regulations, estimating, surveying, frame and masonry construction, and architectural and structural drafting, as well as on related courses in mathematics and physical science.

Also included are courses dealing with some of the historical, economic, and human relations aspects related to the individual in our American industrial life.

Graduates are prepared to accept positions as estimators, expeditors, planning technicians, field inspectors, architectural detailers, architectural draftsmen, and sales representatives. With experience, after completing this program of study, graduates are now holding positions as field engineers, technical engineers, junior structural engineers, engineering assistants, shop superintendents, and real estate brokers. This field of specialization is well designed to help the student who is interested in going into the construction business for himself.

FRESHMAN YEAR

First Semester

(2) ARET 116 (Architectural Drawing)
(2) ARET 120 (Freehand Drawing I)
(2) ARET 172 (Systems of Construction)
(5) MA 151A (Elementary Mathematics for Engineering and the Physical Sciences)
(3) ENGL 101 (English Composition I)
(3) SOC 100 (Introductory Sociology)

(17)

Second Semester

(2) ARET 121 (Freehand Drawing II)
(3-4) ARET 150 (Architectural Construction I)
(3) ARET 164 (Building Materials)
(2) CET 152 (Fundamentals of Surveying)
(4) PST 136 (Physics: Mechanics and Heat)
(3) GNT 220 (Technical Report Writing)

(17-18)

SOPHOMORE YEAR

Third Semester

(3) ARET 210 (History of Architecture I)
(3-4) ARET 222 (Architectural Construction II)
(2) ARET 284 (Mechanical Equipment for Buildings)
(4) PST 176 (Physics: Electricity, Sound and Light)
(4) MET 212 (Mechanics of Materials)
(0-3) Elective

(16-20)

Fourth Semester

(3-4) ARET 224 (Architectural Construction III)
(3) ARET 228 (Materials Testing Lab)
(2) ARET 276 (Specifications and Contract Documents)
(3) ARET 292 (Estimating)
(3) GNT 268 (Elements of Law)
(3) SPE 114 (Fundamentals of Speech Communication)

(17-18)

ELECTRICAL ENGINEERING TECHNOLOGY

The electrical engineering technology program is a combination of technical electrical courses, mathematics courses, science courses, and general academic courses that lead to the degree of Associate of Applied Science. The program is designed to prepare students for employment as electronic technicians in research laboratories, electronic industries, and in any industry that uses electrical power or electronic controls.

The basic curriculum will provide the student with sufficient education to find employment in the fields of communications electronics, industrial electronics, microwaves, military electronics, computer electronics, automation, electronic servicing, television, electrical power, aviation electronics, and others. Specialization in these areas is provided by technical elective courses in the second year of the program.

The duties of the electronic technician could be: construction, testing, and troubleshooting of experimental circuits in research laboratories; installation, maintenance, troubleshooting, operation, and testing of electrical and electronic equipment in industries; sales and service of electronic equipment; etc.

Electronic technicians have the following job classifications: research or laboratory technician, electronics engineering technician, engineering development technician, product design technician, systems test technician, field service technician, production technician, maintenance technician, instrument technician, inspectors, electronic specialist, radio operator, and many others.

After experience and continued technical growth, graduates hold such positions as junior engineer, sales engineer, field engineer, customer service engineer, applications engineer, supervisor, manager, foreman, contractor, electrical estimater, broadcast engineer, etc.

FRESHMAN YEAR

First Semester		Second Semester	
(2)	EET 103 (Electronics I: Vacuum Tubes and Transistors)	(3)	EET 153 (Electronics II)
(3)	EET 101 (Electrical Circuits I)	(3)	EET 151 (Electrical Circuits II)
(2)	EET 113 (Electrical Engineering Technology Laboratory I)	(2)	EET 163 (Electrical Engineering Technology Laboratory II)
(4)	PST 176 (Physics: Electricity, Sound, and Light)	(4)	PST 136 (Physics: Mechanics and Heat)
(5)	MA 151A (Elementary Mathematics for Engineering and the Physical Sciences)	(3)	MA 223A (Introductory Analysis I)
(3)	ENGL 101 (English Composition I)	(3)	SPE 114 (Fundamentals of Speech Communication)
(19)		(18)	

INDUSTRIAL ENGINEERING TECHNOLOGY

This major field of specialization is designed to develop technicians to support the problem-solving and decision-making functions in management and to prepare for planning and control, work method analysis, work measurements, quality assurance and controls, and systems and procedures analysis. Practical applications of production-oriented operations research techniques, data processing, and computer programming fundamentals are stressed. Because an industrial engineering technician is concerned with an organization which has human dimensions at least as important as the technical ones, this aspect is also stressed throughout the curriculum.

The industrial technician is often initially employed in the time study, quality control, stock control, or factory layout department. As he gains experience, he may advance within the department, directly assisting a professional industrial engineer, or he may become a production supervisor. This broad technical background, together with the human relations background and a proficiency in engineering methods and mathematics, enable the industrial engineering technician to take advantage of opportunities for advancement in many directions.

FRESHMAN YEAR

First Semester		Second Semester	
(3)	EG 110 (Drafting Fundamentals)	(3)	ENGL 101 (English Composition I)
(4)	IET 104 (Industrial Organization and Management)	(3)	IET 120 (Systems and Procedures)
(3)	IET 110 (Electronic Data Processing)	(3)	IET 262 (Motion Study and Work Methods)
(5)	MA 151A (Elementary Mathematics for Engineering and the Physical Sciences)	(3)	PSY 370 (Psychology in Business and Industry)
		(1)	EG 113 (Slide Rules and Graphs)
(4)	PST 136 (Physics: Mechanics and Heat)	(4)	PST 176 (Physics: Electricity, Sound, and Light)
(19)		(17)	

SOPHOMORE YEAR

Third Semester		Fourth Semester	
(3)	IET 200 (Computer Programming Fundamentals)	(2)	IET 212 (Industrial Safety)
(3)	ECON 210 (Principles of Economics)	(4)	IET 224 (Production Planning and Control)
(3)	IET 152 (Human Relations in Industry)	(3)	IET 250 (Fundamentals of Production Cost Analysis)
(3)	IET 204 (Techniques of Maintaining Quality)	(3)	GNT 220 (Technical Report Writing)
(3)	IET 266 (Work Measurement and Incentives)	(3)	MA 224A (Introductory Analysis II) or Elective
(3)	MA 223A (Introductory Analysis I) or Elective	(3)	SPE 114 (Fundamentals of Speech Communication)
(18)		(18)	

MECHANICAL ENGINEERING TECHNOLOGY

This program of study has been designed to prepare students to take employment in industries requiring services of drafting and design of a mechanical nature.

Emphasis is placed on product and tool design, mechanical maintenance, testing, inspection, and the selection of methods for efficient and economical production.

Graduates of this program accept jobs as laboratory technicians, engineering assistants, detailers, draftsmen, tool maintenance men, plant maintenance men, layout men, inspectors, and machine and tool salesmen. With additional experience students may aspire to positions as industrial supervisors, machine and tool designers, tool buyers, production expediters, and cost estimators.

FRESHMAN YEAR

First Semester

(2) MET 180 (Materials and Processes)
(3) EG 110 (Drafting Fundamentals)
(5) MA 151A (Elementary Mathematics for Engineering and the Physical Sciences)
(4) PST 136 (Physics: Mechanics and Heat)
(3) ENGL 101 (English Composition I)

(17)

Second Semester

(3) MET 200 (Power Systems)
(2) MET 204 (Production Drawing)
(4) MET 212 (Mechanics of Materials)
(2) MET 256 (Material Fabrication)
(3) MA 223A (Introductory Analysis I)
(4) PST 176 (Physics: Electricity, Sound, and Light)

(18)

SOPHOMORE YEAR

Third Semester

(4) MET 216 (Machine Elements)
(3) MET 232 (Dynamics)
(3) MA 224A (Introductory Analysis II)
(3) GNT 220 (Technical Report Writing)
(3) SPE 114 (Principles of Speech Communication)
(2) Technical Electives

(18)

Fourth Semester

(3) EET 216 (Electrical Machines and Controls)
(4) IET 104 (Industrial Organization and Products)
(3) PSY 370 (Psychology in Business)
(2-4) Technical Electives
(3) Non-technical Electives

(15-17)

TECHNICAL ELECTIVES

Machine Design Electives

MET	228	Machine Design	2
IET	204	Technique of Maintaining Quality	3
EG	212	Descriptive Geometry	3

Tool Design Electives

MET	236	Jig and Fixture Design	2
MET	288	Die Design	2
EG	212	Descriptive Geometry	3

Instrumentation Electives

MET	340	Piping and Plumbing Design	3
MET	330	Hydraulic and Pneumatic Systems	3
MET	384	Instrumentation	3

Heating, Ventilating, and Air Conditioning

MET	360	Heating, Ventilating, and Air Conditioning	3
MET	361	Refrigeration	3
EG	212	Descriptive Geometry	3

NURSING (LEADING TO RN)

This program of nursing education provides a means of correlating the philosophy and standards of nursing education with those of general education. The over-all standards and policies of the University apply to the program in nursing as they do to the other educational programs within the University. The associate degree program is designed to fulfill the educational needs of

qualified high school graduates (1) who want to prepare for nursing in a relatively short time and (2) who want to study in a multi-purpose collegiate institution where they share the responsibilities, privileges, intellectual, and social experiences with all other students. Clinical practice experiences are obtained in nearby cooperating hospitals. The University nursing faculty selects, supervises, and evaluates all learning experiences.

Graduates are prepared to give care to patients as beginning general duty nurses, drawing upon their scientific knowledge and understanding of human behavior and needs. They are prepared to develop satisfactory relationships with people, to cooperate and share responsibility for their patients' welfare with other members of the nursing and health staff, and to be self-directive in learning from experience as practicing nurses.

Graduates of the associate degree program in nursing are eligible for state examinations for licensure as registered nurses.

All nursing courses must be taken in sequence.

FRESHMAN YEAR

First Semester

(2) BIOL 201 (Biology of Man)
(1) BIOL 202 (Laboratory in Human Biology)
(3) CHM 119 (General Chemistry)
(3) PSY 120 (Elementary Psychology)
(3) F&N 303 (Essentials of Nutrition)
(5) NT 110 (Introduction to Nursing)

(17)

Second Semester

(2) BIOL 203 (Biology of Man)
(1) BIOL 204 (Laboratory in Human Biology)
(3) BIOL 220 (Introduction to Microbiology)
(3) PSY 235 (Child Psychology)
or
(3) CDFL 210 (Child Development)
(3) PCOL 201 (Pharmacology)
(5) NT 120 (Maternal and Child Nursing)

(17)

SOPHOMORE YEAR

Third Semester

(3) SOC 100 (Introduction to Sociology)
(3) ENGL 101 (English Composition I)
(7) NT 214 (Medical and Surgical Nursing I)
(4) NT 230 (Psychodynamic and Psychiatric Nursing I)

(17)

Fourth Semester

(3) NT 250 (Seminar in Nursing)
(7) NT 215 (Medical and Surgical Nursing II)
(4) NT 231 (Psychodynamic and Psychiatric Nursing II)
(3) Elective

(17)

CERTIFICATE PROGRAMS IN APPLIED TECHNOLOGY

The certificate programs are designed primarily for the more mature part-time student through consultation with leaders from business and industry. Each program is actively reviewed in the light of the latest trends in manufacturing and plant and business operations.

These are intensive and practical programs of less than 40 semester hours of credit. Advancement in each of these programs can be varied to suit the needs

of the individual student who may take one, two, or three courses each semester. The average part-time student can complete any one of the programs within three years.

Enrollment is on the basis of a program carefully tailored to meet individual student needs and vocational objectives through consultation with an experienced counselor. Changes in the student's program arising out of new work assignments or changes in vocational objective may be worked out with his counselor.

In those engineering technology areas which have a counterpart in the two-year curricula, a student may work toward the certificate and then toward the associate degree, provided he has been admitted as a regular student.

PROFESSIONAL FOREMANSHIP

The Professional Foremanship Certificate Program is an intensive and practical curriculum equivalent to 37 semester hours. It is intended to provide foremen with the professional education needed to handle the many supervisory and technical problems which they meet daily in technical, communications, and human relations fields.

The program has been set up by representatives of industry, professional foremen's organizations, and the University. It is designed to meet the needs of management, which is vitally concerned with training foremen for positions of leadership.

The Professional Foremanship Program is the certificate program counterpart of the industrial engineering technology two-year curriculum. Course selection is on the basis of a program worked out with the counselor assigned and is carefully tailored to individual needs.

Admission to the program is granted to those mature adults already in management positions who meet the entrance standards and requirements. All other applicants must complete the same procedures for admission as applicants to the associate degree programs in the School of Technology. These procedures are outlined on pages 6 to 9. Any specific questions concerning the program should be directed to the Office of Admissions at the Barker Memorial Center.

Required Courses

(4) IET 104 (Industrial Organization and Production)
(2) GNT 120 (Psychology)
(3) IET 152 (Human Relations in Industry)
(3) SPE 114 (Fundamentals of Speech Communication)

(12)

Optional Courses—14 semester hours maximum chosen from one or a combination of the following groups:

Group I—14 semester hours maximum

Communications	10 hours maximum
English and Report Writing	7 hours maximum
Advanced courses in Speech	3 hours maximum
Economics and Labor Relations	6 hours maximum
Physical Sciences	12 hours maximum

Group II—8 semester hours maximum

Courses specific to two-year diploma curricula—8 semester hours maximum
Courses from one or more technologies may be elected in this group provided that (1) they relate directly to the individual's duties, responsibilities, or line of promotability; and (2) prior approval of the counselor and the head of the department administering the program is obtained.

Management Experience—(Equivalent to 12 semester hours)

Before receiving the Professional Foremanship Certificate, the candidate must have had two years of successful experience in the management field. Satisfaction of this requirement is met by a confirming letter from the managerial employer under whom the candidate worked. Formal credit is not established for this work, but it is considered equivalent to 12 semester hours of credit in the Professional Foremanship program.

DEPARTMENT OF INDUSTRIAL EDUCATION

The Department of Industrial Education consists of three sections: industrial arts, the vocational-technical, and general industrial. Each section is concerned with one or more programs and activities designed to equip men and women for entrance into career fields that require an intellectual base upon which practical applications of the knowledge gained in the humanities, the sciences, and the technologies depend. Thus, the courses provided offer a combination of theoretical and practical education.

Graduate and undergraduate programs which prepare students for entrance into a variety of careers in business, education, government, and industry are available. Students may elect to pursue an option or major which will lead to the degree of Bachelor of Science in Industrial Education with a specialty in one of the following areas:

1. Applied Technology Teaching (Junior College and Technical Institute Teaching)
2. General Industrial Activity
3. Industrial Arts Teaching
4. Vocational-Industrial Teaching
5. Training in Industry

CORE REQUIREMENTS FOR B.S.I.ED.

All of the students are required to take a certain number of courses which are the same. These "core requirements" form a sound, basic program for those people who are interested in earning the degree of Bachelor of Science in Industrial Education.

IED 110, 115, 117	5 hours
English Composition (ENGL 101, 102)	6 hours
Speech (SPE 114)	3 hours
Psychology (PSY 120)	3 hours
Philosophy (PHIL 210)	3 hours
Social Science (HIST 252, POL 101, ECON 210, SOC 100)	12 hours
Mathematics (MA 153 and 154)	6 hours
Chemistry (CHM 113, 114)	6 hours
Physics (PHYS 220, 221)	8 hours
Drafting (EG 114, 115)	4 hours
Mechanical Engineering Technology (MET 215)	2 hours
Electrical Engineering Technology (EET 214)	2 hours

BACHELOR OF SCIENCE ENGINEERING TECHNOLOGY

(Administered by Department of Industrial Education)

Through its School of Technology, the University has recognized the need of the graduate of two-year Associate in Applied Science degree and similar curricula for further, and broader, education. New third- and fourth-year curricula have been especially developed to lead to the Bachelor of Science degree for such students.

The baccalaureate program provides the general education which permits the graduate to engage in a significantly broader span of activities. It provides a very important background in interdisciplinary studies and creates a greater potential for the graduate. It also enables the graduate to do additional work in his area of specialization.

This program was designed by the School of Technology with the active assistance of industry. It is offered to enable the engineering technician, and similar students who have completed an associate degree program, to improve his performance and increase significantly his promotability.

Graduate Study

At the Barker Memorial Center, graduate courses of instruction are equivalent in content and quality to courses offered on the Lafayette campus which carry the same numbers and credit. Teaching personnel in these programs are either regular staff members of the University faculty or have comparable academic and teaching qualifications as determined by the heads of the departments in the subject-matter area.

Any person who wishes to pursue an advanced degree at Purdue University should make application for regular admission to the Graduate School at the earliest possible date. Regularly admitted students are assigned an adviser and follow a formal plan of study within a department of the University.

Persons wanting to take individual graduate courses should make application for temporary admission with the Admissions office at the Barker Memorial Center. Temporary admission is intended for the student who does not plan to work toward an advanced degree at Purdue.

Courses for graduate credit are administered through the University Extension Administration at the Barker Memorial Center. Qualified students who complete individual courses at the Barker Memorial Center are granted full graduate credit subject to the same restrictions as exist for courses on the Lafayette Campus, namely, that only courses which meet the approval of the student's advisory committee and the dean of the Graduate School may be used in the plan of study for the master's degree.

COOPERATIVE PROGRAM IN TEACHER EDUCATION

The Cooperative Program in Teacher Education is a new venture in cooperation among the four state institutions of higher learning. The CPTE represents firm institutional commitments which will permit teachers to make long-range plans for their graduate degree programs.

The common elements of the master's degree program of each institution have been identified. Some of the courses which have equivalents at each institution have been selected to be offered over a three-year sequence in the northwest region of Indiana at four locations: the Barker Memorial Center of Purdue University at Michigan City, the Gary Campus of Indiana University, the Calumet Campus of Purdue University at Hammond, and the South Bend-Mishawaka Campus of Indiana University at South Bend. These courses carry credit that is acceptable to each institution on an interchangeable basis.

Resident faculty, who will have their offices in the locations mentioned above, will be provided by the state colleges and universities. In addition, the resources of each institution are being utilized to insure a quality program in teacher education. Curriculum analysis and coordination, demonstration, and field testing of new and promising approaches to the graduate education of teachers are essential elements of the CPTE.

To enroll in the CPTE Program, a student must first obtain a letter of admission from one of the four state schools—Ball State University, Indiana State University, Indiana University, or Purdue University. He should then register at the location where the course is offered with the institution where credit is desired.

The schedule for each semester will be announced separately.

Further information may be obtained by contacting the Administrative Office at the Barker Memorial Center.

ADMINISTRATIVE AND INSTRUCTIONAL STAFF

GEORGE R. AVERITT (1961).....Lecturer in Economics
A.B., Indiana, 1953.

LOUIS E. BEDNAR (1965).....Instructor in Mathematics
B.S.Ed., Western Illinois, 1963; M.S., Northern Illinois, 1965.

JAMES R. BLACKWELL (1965).....Assistant Director of Purdue University-Barker Memorial Center, with the rank of Assistant Professor
B.S., Purdue, 1941; M.A., Louisville, 1953; M.B.A., George Washington, 1964.

RAYMOND M. BOBILLO (1962)....Instructor in Industrial Engineering Technology
B.S., Ball State, 1950.

THOMAS L. BOHL (1966).....Lecturer
B.S.Ch.E., Montana State, 1960.

ANITA O. BOWSER (1956).....Instructor in History and Political Science
A.B., Kent State, 1945; LL.B., William McKinley School of Law, 1949.

THOMAS F. BRADY (1965).....Lecturer in Industrial Engineering Technology
B.S., Indiana University, 1958.

ANGELA J. Del VECCHIO (1966)....Associate Professor in Nursing
B.S., Chicago, 1945; M.A., Columbia, 1953; M.Ed., 1966.

JEENE W. GAINES (1964).....Lecturer in Psychology
B.A., Iowa, 1955; M.S., Purdue, 1956; Ph.D., 1959.

WILLIAM GILLICK (1961).....Lecturer in Industrial Engineering Technology
A.B., Indiana, 1940.

FRANCES M. GOURLEY (1948).....Lecturer in Zoology
B.S., Illinois, 1935; M.S., 1940.

PETER P. GRANDE (1966).....Lecturer in Education
B.S., Kutztown State, 1951; M.A., Notre Dame, 1955; Ph.D., 1965.

HUSSEN HAKIM (1963).....Lecturer in Modern Languages
B.A., Indiana, 1958; M.A., Ball State, 1960.

HERBERT HECKENDORN (1965)...Lecturer in Industrial Engineering Technology
B.B.A., Clarkson College of Technology, 1956.

DIXIE L. HORNSBY (1964).....Lecturer in Biological Sciences
B.S., Ball State, 1958; M.A., 1962.

ROBERT D. HUMMEL (1964).....Instructor in Modern Languages
B.S., Purdue, 1958; M.A.T., 1963.

ELLIOTT C. HUTTON (1961).....Lecturer in Mechanical Engineering Technology
B.S., Iowa State Teachers, 1936; M.S., Oregon State, 1939.

JOHN JOHNSTON (1965).....Lecturer in Chemistry
B.S., College of Technology, London, 1958.

ROBERT L. JONES (1959).....Lecturer in Psychology
B.A., Valparaiso, 1953; M.S., Wisconsin, 1958.

DONALD R. JUNCKER (1966)....Lecturer in Industrial and Mechanical Engineering Technology
B.S.I.E., Purdue, 1963; M.S.I.E., 1964.

FREDERICK R. LISARELLI (1946)..Associate Professor of Drafting and Mechanical Engineering Technology
BS., Alabama, 1938; M.A., Columbia, 1946.

C. DeLOS LONZO (1955).....Lecturer in History and Government
A.B., Franklin, 1947; M.A., Indiana, 1952.

BARBARA M. LOOTENS (1965)....Instructor in English
A.B., Indiana, 1950.

HARRY M. LYKENS (1963).....Lecturer in Mathematical Sciences
B.S.Ed., Ball State, 1958; M.A., 1961.

ELAINE J. MADDEN (1963).....Lecturer in English
B.S., Valparaiso, 1961.

JOHN A. MOHAMED (1962).....Lecturer in Education
B.S., Indiana, 1950; M.A., Northwestern, 1956.

HOWARD D. MURDOCK (1946)....Associate Professor of Chemistry
B.S., Notre Dame, 1937; M.A., 1940.

THOMAS R. NUNN (1946).....Associate Professor of English
A.B., Central Michigan, 1935; A.M., Michigan, 1940.

PETER O. PERETTI (1965).....Instructor in Sociology
B.A., Lake Forest, 1962; M.A., Roosevelt, 1964.

JAMES H. REED (1957).....Lecturer in Industrial Engineering Technology
B.S., Eastern Illinois State, 1950; M.S., Wisconsin, 1951.

KARL RICHTER (1965).....Lecturer in Philosophy
Frederich Wilhelm, 1933; Jewish Theological Seminary, 1934; D.D., Hebrew Union College, 1960.

ROBERT F. SCHWARZ (1952) ....Director of the Purdue University-Barker Memorial Center, with the rank of AssociateProfessor; Manager of the North Central Region
A.B., Indiana, 1950; M.S., 1952.

DENNIS H. SORGE (1965).....Lecturer in Mathematical Sciences
B.S., Purdue, 1962.

GORDON L. SQUIRES (1966).....Lecturer in Industrial Engineering Technology
B.A., Michigan State, 1949; M.B.A., 1965.

JOHN J. STANFIELD (1964).....Lecturer in English
B.A., Indiana, 1951; M.A., 1961.

ROBERTA J. SWANSON (1962)...Lecturer in Psychology
B.S., Alabama Polytechnic Institute, 1955; M.S., Purdue, 1957.

LAWRENCE T. TANBER (1952)...Lecturer in Mechanical Engineering Technology
A.T.A., Purdue, 1951.

RICHARD K. WAGENBLAST (1965)..Lecturer in Physical Sciences (Technology)
B.S., Illinois Institute of Technology, 1951.

MELVIN YODER (1956).....Lecturer in Industrial Technology
A.B., Bluffton, 1941.

INDEX

UNIVERSITY EXTENSION COUNCIL
1965-66

Ex-Officio

C. H. Lawshe, Ph.D. ..... Dean of University Extension

D. A. Scott, Ph.D. ..... Associate Dean of University Extension

G. W. Bergren, M.S.M.E. ..... Assistant Dean of University Extension

R. F. Schwarz, M.A. ..... Director of Purdue University Barker Memorial Center

E. L. Butz, Ph.D. ..... Dean of the School of Agriculture

H. G. Diesslin, Ph.D. ..... Associate Dean of the School of Agriculture and Director of Cooperative Extension Services

L. O. Nelson, Ph.D. ..... Director of Conferences and Continuation Services

F. K. Burrin, Ph.D. ..... Director of Summer Sessions and Evening Classes

Appointed by the President, for One Year

Russell Cosper, Ph.D. ..... Head of the Department of English

W. O. Forster, Ph.D. ..... Head of Department of History

G. R. MacLane, Ph.D. ..... Head of the Division of Mathematical Sciences

E. C. Stevenson, Ph.D. ..... Head of Department of Horticulture

D. H. Walther, Ph.D. ..... Head of Department of Modern Languages

Appointed by the President, for Two Years

Ralph G. Beelke, Ph.D. ..... Head of the Department of Art and Design

Mary Fuqua, Ph.D. ..... Head of the Department of Foods and Nutrition

William H. Hayt, Jr., Ph.D. ..... Special Assistant (Television); Professor of Electrical Engineering

J. L. Krider, Ph.D. ..... Head of the Department of Animal Sciences

E. W. Noland, Ph.D. ..... Head of the Department of Sociology

Max D. Steer, Ph.D. ..... Head of the Department of Audiology and Speech Science

Appointed by the President, for Three Years

C. R. Hicks, Ph.D. ..... Head of the Department of Education

Gerald W. Isaacs, Ph.D. ..... Head of the Department of Agricultural Engineering

Boyd R. Keenan, Ph.D. ..... Head of the Department of Political Science

J. F. McLaughlin, Ph.D. ..... Professor of Civil Engineering

Raymond E. Nadeau, Ph.D. ..... Head of the Department of Speech

J. B. Olson, Ph.D. ..... Associate Professor of Biological Education

Purdue-Barker Center
631 Washington Street
Michigan City, Indiana 46360
Return Requested

NON-PROFIT ORGANIZATION